

السنة الثانية

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Question No. (1):

For Each Question, Choose the Correct Answer from the Multiple-Choice List:

1. SELECT _____
FROM instructor
WHERE dept name= 'Comp. Sci.';
Which of the following should be used to find the mean of the salary ?
A) Sum(salary)
B) Count(salary)
C) Avg(salary)
D) Mean(salary)
2. Which of the following is a single valued attribute
A) Address
B) SUBJECT_TAKEN
C) Reference
D) Register number
3. The predicate in a where clause can involve Boolean operations such as and. The result of true and unknown is _____ false and unknown is _____ while unknown and unknown is _____
A) True, unknown, unknown
B) Unknown, false, unknown
C) True, false, unknown
D) Unknown, unknown, false
4. CREATE TABLE SECTION
(Course_id VARCHAR (8),
Sec_id VARCHAR (8),
Semester VARCHAR (6),
YEAR NUMERIC (4,0),
Building NUMERIC (15),
PRIMARY KEY (course id, sec id, semester, YEAR),
FOREIGN KEY (course id) REFERENCES course);
Which of the following has an error in the above create table for the relation section
A) Building numeric (15)
B) Primary key (course id, sec id, semester, year)
C) Foreign key (course id) references course
D) Year numeric (4,0)
5. We can test for the nonexistence of tuples in a subquery by using the _____ construct.
A) Exist
B) Not exist
C) Not exists
D) Exists
6. For each attribute of a relation, there is a set of permitted values, called the _____ of that attribute.
A) Schema
B) Domain
C) Relation
D) Set
7. The entity set person is classified as student and employee. This process is called _____
A) Constraint generalization
B) Generalization
C) Specialization
D) Inheritance
8. _____ operator is used for appending two strings.
A) ||
B) &
C) _
D) %
9. _____ is preferred method for enforcing data integrity
A) Cursors
B) Constraints
C) Stored Procedure
D) Triggers
10. The phrase "greater than at least one" is represented in SQL by _____
A) > all
B) > some
C) < some
D) < all
11. SELECT name
FROM instructor
WHERE salary IS NOT NULL;
Selects
A) Tuples with no null values
B) Tuples with any salary
C) Tuples with null value
D) All of the mentioned
12. Key to represent relationship between tables is called
A) Foreign Key
B) Primary key
C) Secondary Key
D) None of the mentioned

13. An _____ is a set of entities of the same type that share the same properties, or attributes.

- A) Relation set
- B) Entity set**
- C) Entity model
- D) Attribute set

14. The user defined data type can be created using

- A) Create datatype
- B) Create datatype
- C) Create type**
- D) Create data

15. The attribute AGE is calculated from DATE_OF_BIRTH. The attribute AGE is

- A) Multi valued
- B) Composite
- C) Derived**
- D) Single valued

16. The result of _____ unknown is unknown.

- A) Not**
- B) Xor
- C) Or
- D) And

17. Which of the following indicates the maximum number of entities that can be involved in a relationship?

- A) Maximum cardinality**
- B) ERD
- C) Greater Entity Count
- D) Minimum cardinality

18. Which of the following should be used to find all the courses taught in the Fall 2009 semester but not in the Spring 2010 semester .

- A) SELECT COUNT (DISTINCT ID)

FROM takes

WHERE (course id, sec id, semester, YEAR) IN
(SELECT course id, sec id, semester, YEAR
FROM teaches

WHERE teaches.ID= 10101);

- B) SELECT DISTINCT course id**

FROM SECTION

WHERE semester = 'Fall' AND YEAR= 2009 AND
course id NOT IN (SELECT course id
FROM SECTION

WHERE semester = 'Spring' AND YEAR= 2010);

- C) SELECT DISTINCT course_id

FROM instructor

WHERE name NOT IN ('Fall', 'Spring');

- D) (SELECT course id

FROM SECTION

WHERE semester = 'Spring' AND YEAR= 2010)

19. Let us consider phone_number, which can take single or several values. Treating phone_numbers as an _____ permits instructors to have several phone numbers (including zero) associated with them.

- A) Attribute**
- B) Relation
- C) Value
- D) Entity

20. Entity is a _____

- A) Model of relation
- B) Thing in real world**
- C) Object of relation
- D) Present working model

21. The total participation by entities is represented in E-R diagram as

- A) Double line**
- B) Double rectangle
- C) Circle
- D) Dashed line

22. _____ is a special type of integrity constraint that relates two relations & maintains consistency across the relations.

- A) Referential Integrity Constraints**
- B) Domain Integrity Constraints
- C) Domain Constraints
- D) Entity Integrity Constraints

23. The basic data type char(n) is a _____ length character string and varchar(n) is _____ length character.

- A) Equal, variable
- B) Fixed, variable**
- C) Variable, equal
- D) Fixed, equal

24. CREATE TABLE Employee (Emp_id NUMERIC NOT NULL, Name VARCHAR(20) , dept_name VARCHAR(20), Salary NUMERIC UNIQUE(Emp_id,Name));

INSERT INTO Employee VALUES (1002, Ross, CSE, 10000)

INSERT INTO Employee VALUES (1006, Ted, Finance,);

INSERT INTO Employee VALUES (1002, Rita, Sales, 20000);

What will be the result of the query?

- A) Error in insert into Employee values (1006, Ted, Finance,);
- B) All statements executed
- C) Error in insert into Employee values (1008, Ross, Sales, 20000);
- D) Error in create statement**

25. SELECT instructor.*

FROM instructor, teaches

WHERE instructor.ID= teaches.ID;

This query does which of the following operation?

A) Only the some attributes from instructed and teaches are selected

B) All attributes of teaches are selected on given condition

C) All attributes of instructor and teaches are selected

D) All attributes of instructor are selected on the given condition

26. SELECT dept_name, Dept_id, avg (salary)

FROM instructor

GROUP BY dept_name;

This statement is erroneous because

A) Group by clause is not valid in this query

B) Avg(salary) should not be selected

C) Dept_id should be used in group by clause

D) Misplaced group by clause

27. ' _ _ _ ' matches any string of _____ three characters. ' _ _ _ % ' matches any string of _____ three characters.

A) Exactly, At least

B) At least, All

C) All, Exactly

D) At least, Exactly

28. A Delete command operates on _____ relation.

A) Several

B) One

C) Null

D) Two

29. The term _____ is used to refer to a row.

A) Field

B) Attribute

C) Instance

D) Tuple

30. A Boolean data type that can take values true, false, and _____

A) 0

B) Null

C) Unknown

D) 1

31. A relation is in BCNF, then it is also in

A) 3 NF

B) 1 NF

C) 2 NF

D) All of the mentioned

32. In 2NF

A) No multivalued dependencies (MVDs) exist

B) No partial FDs exist

C) No partial MVDs exist

D) No functional dependencies (FDs) exist

33. Let R(A,B,C,D,E,P,G) be a relational schema in which the following FDs are known to hold:

AB->CD

DE->P

C->E

P->C

B->G

The relation schema R is

A) not in 2NF

B) in BCNF

C) in 3NF, but not in BCNF

D) in 2NF, but not in 3NF

34. An entity in A is associated with at most one entity in B, and an entity in B is associated with at most one entity in A. This is called as

A) Many-to-one

B) One-to-many

C) One-to-one

D) Many-to-many

35. Which of the following is used to insert a tuple from another relation?

A) INSERT INTO course VALUES ('CS-437', 'DATABASE Systems', 'Comp. Sci.', 4);

B) INSERT INTO course (course id, title, dept name, credits) VALUES ('CS-437', 'DATABASE Systems', 'Comp. Sci.', 4);

C) Not possible

D) INSERT INTO instructor

SELECT ID, name, dept name, 18000

FROM student

WHERE dept name = 'Music' AND tot cred > 144;

36. SELECT name

FROM instructor

WHERE dept name = 'Physics'

ORDER BY name;

By default, the order by clause lists items in _____ order.

A) Ascending

B) Same

C) Descending

D) Any

37. The refinement from an initial entity set into successive levels of entity subgroupings represents a _____ design process in which distinctions are made explicit.

A) Top-down

B) Hierarchy

C) Radical

D) Bottom-up

38. To include integrity constraint in an existing relation use:

- A) Alter table
- B) Create table
- C) Drop table
- D) Modify table

39. Here which of the following displays the unique values of the column?

SELECT _____ dept_name
FROM instructor;

- A) Name
- B) Distinct
- C) All
- D) From

40. CREATE TABLE course

(...
FOREIGN KEY (dept_name) REFERENCES
department
...);

Which of the following is used to delete the entries in the referenced table when the tuple is deleted in course table?

- A) Delete cascade
- B) Set null
- C) Delete
- D) All of the mentioned

41. Which relationship is used to represent a specialization entity?

- A) AIS
- B) WHOIS
- C) ISA
- D) ONIS

42. For like predicate which of the following is true.

- i) % matches zero OR more characters.
- ii) _ matches exactly one CHARACTER.
- A) ii-only
- B) i & ii
- C) i-only
- D) None of the mentioned

43. What is a relationship called when it is maintained between two entities?

- A) Quaternary
- B) Unary
- C) Binary
- D) Ternary

44. The relation with the attribute which is the primary key is referenced in another relation. The relation which has the attribute as a primary key is called

- A) Referencing relation
- B) Referenced relation
- C) Referred relation
- D) Referential relation

45. Which of the following relation updates all instructors with salary over \$100,000 receive a 3 percent raise, whereas all others receive a 5 percent raise.

A) UPDATE instructor

SET salary = CASE
WHEN salary <= 100000 THEN salary * 1.03
ELSE salary * 1.05
END

B) UPDATE instructor

SET salary = salary * 1.03
WHERE salary > 100000;
UPDATE instructor
SET salary = salary * 1.05
WHERE salary <= 100000;

C) UPDATE instructor

SET salary = salary * 1.05
WHERE salary < (SELECT avg (salary)
FROM instructor);

D) None of the mentioned

46. SELECT * FROM employee

What type of statement is this?

- A) View
- B) DML
- C) Integrity constraint
- D) DDL

47. CREATE TABLE Manager (ID NUMERIC, Name VARCHAR(20), budget NUMERIC, Details VARCHAR(30));

In order to ensure that the value of budget is non-negative which of the following should be used?

- A) Check(budget<0)
- B) Alter(budget<0)
- C) Check(budget>0)
- D) Alter(budget>0)

48. Using the _____ clause retains only one copy of such identical tuples.

- A) Not null
- B) Null
- C) Distinct
- D) Unique

49. INSERT INTO instructor VALUES (10211, 'Smith', 'Biology', 66000);

What type of statement is this?

- A) DML
- B) Relational
- C) DDL
- D) Query

50. The primary key must be
A) Both Unique and Not null
B) Either Unique or Not null
C) Not null
D) Unique
51. Which one of the following uniquely identifies the elements in the relation?

A) Foreign key B) Composite key
C) Primary key D) Secondary Key

52. Weak entity set is represented as

A) Double rectangle B) Underline
C) Double line D) Double diamond

53. A window into a portion of a database is

A) Query
B) Schema
C) Data dictionary
D) View

54. The attribute name could be structured as an attribute consisting of first name, middle initial, and last name. This type of attribute is called

A) Derived attribute
B) Simple attribute
C) Composite attribute
D) Multivalued attribute

55. SELECT * FROM employee WHERE dept_name = 'Comp Sci';

In the SQL given above there is an error. Identify the error.

A) Employee
B) From
C) Dept_name
D) "Comp Sci"

56. SELECT name

FROM instructor
WHERE salary <= 100000 AND salary >= 90000;

- This query can be replaced by which of the following?

A) SELECT name
FROM employee
WHERE salary <= 90000 AND salary >= 100000;
B) SELECT name
FROM instructor
WHERE salary BETWEEN 100000 AND 90000;
C) SELECT name
FROM instructor
WHERE salary BETWEEN 90000 AND 100000;
D) SELECT name
FROM employee
WHERE salary BETWEEN 90000 AND 100000;

57. If you were collecting and storing information about your music collection, an album would be considered a(n) _____

A) Instance
B) Attribute
C) Entity
D) Relation

58. Consider the employee work-team example, and assume that certain employees participate in more than one work team. A given employee may therefore appear in more than one of the team entity sets that are lower level entity sets of employee. Thus, the generalization is

A) Relational
B) Uniqueness
C) Overlapping
D) Disjointness

59. For a weak entity set to be meaningful, it must be associated with another entity set, called the

A) Neighbour set
B) Identifying set
C) Strong entity set
D) Owner set

60. An entity in A is associated with at most one entity in B. An entity in B, however, can be associated with any number (zero or more) of entities in A.

A) One-to-one
B) Many-to-one
C) One-to-many
D) Many-to-many

61. The entity relationship set is represented in E-R diagram as

A) Diamond
B) Double diamonds
C) Undivided rectangles
D) Dashed lines

62. In the given query which of the keyword has to be inserted?

INSERT INTO employee _____ (1002,Joey,2000);
A) Field B) Relation
C) Table D) Values

63. The _____ is the one in which the primary key of one relation is used as a normal attribute in another relation.

A) Referred relation
B) Referential relation
C) Referencing relation
D) Referenced relation

64. Course(course_id, sec_id, semester)
Here the course_id, sec_id and semester are _____ and course is a _____

- A) Attributes, Relation
- B) Tuple, Relation
- C) Tuple, Attributes
- D) Relations, Attribute

65. CREATE TABLE employee (name VARCHAR, id INTEGER)

What type of statement is this?

- A) DDL
- B) Integrity constraint
- C) DML
- D) View

66. The _____ is essentially used to search for patterns in target string.

- A) In Predicate
- B) Like Predicate
- C) Out Predicate
- D) Null Predicate

67. Which of the following gives a logical structure of the database graphically?

- A) Architectural representation
- B) Entity-relationship diagram
- C) Entity diagram
- D) Database diagram

68. The query given below will not give an error. Which one of the following has to be replaced to get the desired output?

```
SELECT ID, name, dept name, salary * 1.1  
WHERE instructor;
```

- A) ID
- B) Where
- C) Instructor
- D) Salary*1.1

69. Which one of the following provides the ability to query information from the database and to insert tuples into, delete tuples from, and modify tuples in the database?

- A) Query
- B) DML(Data Manipulation Language)
- C) Relational Schema
- D) DDL(Data Definition Language)

70. SELECT COUNT (____ ID)

FROM teaches

WHERE semester = 'Spring' AND YEAR = 2010;

If we do want to eliminate duplicates, we use the keyword _____ in the aggregate expression.

- A) Count
- B) Primary key
- C) Distinct
- D) Avg

71. SELECT dept_name, Dept_id, avg (salary)
FROM instructor
GROUP BY dept_name;

This statement is erroneous because

- A) Group by clause is not valid in this query
- B) Misplaced group by clause
- C) Avg(salary) should not be selected
- D) Dept_id should be used in group by clause

72. Not applicable condition can be represented in relation entry as

- A) 0
- B) Blank Space
- C) NA
- D) NULL

73. Updates that violate _____ are disallowed.

- A) DDL constraints
- B) Authorization
- C) Integrity constraints
- D) Transaction control

74. A relational database consists of a collection of

- A) Keys
- B) Tables
- C) Fields
- D) Records

75. Which of the join operations do not preserve non matched tuples?

- A) Natural join
- B) Inner join
- C) Left outer join
- D) Right outer join

76. Which one of the following is used to define the structure of the relation, deleting relations and relating schemas?

- A) Relational Schema
- B) DML(Data Manipulation Language)
- C) DDL(Data Definition Language)
- D) Query

77. In SQL the spaces at the end of the string are removed by _____ function.

- A) Lower
- B) Upper
- C) String
- D) Trim

78. In SQL the statement select * from R, S is equivalent to

- A) Select * from R cross join S
- B) Select * from R inner join S
- C) Select * from R natural join S
- D) Select * from R union join S

79. Drop Table cannot be used to drop a table referenced by a _____ constraint.

- A) Composite Key
- B) Local Key
- C) Foreign Key**
- D) Primary Key

80. A _____ is a pictorial depiction of the schema of a database that shows the relations in the database, their attributes, and primary keys and foreign keys.

- A) Schema flow
- B) Schema diagram**
- C) Relational algebra
- D) Database diagram

81. UPDATE instructor

_____ salary = salary * 1.05;

Fill in with correct keyword to update the instructor relation.

- A) Select
- B) Where
- C) Set**
- D) In

82. Which one of the following is a set of one or more attributes taken collectively to uniquely identify a record?

- A) Sub key
- B) Foreign key
- C) Candidate key
- D) Super key**

83. The descriptive property possessed by each entity set is _____

- A) Model
- C) Attribute**
- B) Entity
- D) Relation

84. The result which operation contains all pairs of tuples from the two relations, regardless of whether their attribute values match.

- A) Set difference
- B) Join
- C) Cartesian product**
- D) Intersection

85. An attribute A of datatype varchar(20) has the value "Avi". The attribute B of datatype char(20) has value "Reed". Here attribute A has _____ spaces and attribute B has _____ spaces.

- A) 20, 4
- B) 3, 4
- C) 3, 20**
- D) 20, 20

86. Which one of the following deletes all the entries but keeps the structure of the relation.

- A) Delete from instructor where dept name = 'Finance';
- B) Delete from instructor;**
- C) Delete from r where P;
- D) Delete from instructor where salary between 13000 and 15000;

87. The union operation automatically _____ unlike the select clause.

- A) Eliminates duplicate**
- B) Adds common tuples
- C) Adds tuples
- D) Eliminates unique tuples

88. SELECT *

FROM instructor

ORDER BY salary _____, name _____;

To display the salary from greater to smaller and name in ascending order which of the following options should be used?

- A) Desc, Asc**
- B) Descending, Ascending
- C) Asc, Desc
- D) Ascending, Descending

89. Which of the following is used to store movie and image files?

- A) Image
- B) Clob
- C) Blob**
- D) Binary

90. There are similarities between the instructor entity set and the secretary entity set in the sense that they have several attributes that are conceptually the same across the two entity sets: namely, the identifier, name, and salary attributes. This process is called

- A) Specialization
- B) Generalization**
- C) Similarity
- D) Commonality

91. The _____ operation allows the combining of two relations by merging pairs of tuples, one from each relation, into a single tuple.

- A) Union
- D) Join**
- C) Intersection
- B) Select

92. Which of the following is not an integrity constraint?

- A) Positive**
- B) Check 'predicate'
- C) Not null
- D) Unique

93. SELECT name ____ instructor name, course id
FROM instructor, teaches
WHERE instructor.ID= teaches.ID;
Which keyword must be used here to rename the field name?
A) Join
B) As
C) From
D) Rename
94. An attribute in a relation is a foreign key if the ____ key from one relation is used as an attribute in that relation.
A) Sub
B) Super
C) Candidate
D) Primary
95. To remove a relation from an SQL database, we use the ____ command.
A) Remove
B) Delete
C) Drop table
D) Purge
96. Which of the following is another name for a weak entity?
A) Owner
B) Dominant
C) Child
D) All of the mentioned
97. CREATE TABLE employee (id INTEGER,name VARCHAR(20),salary NOT NULL);
INSERT INTO employee VALUES (1005,Rach,0);
INSERT INTO employee VALUES (1007,Ross,);
INSERT INTO employee VALUES (1002,Joey,335);
Some of these insert statements will produce an error. Identify the statement.
A) Insert into employee values (1002,Joey,335);
B) Insert into employee values (1007,Ross,);
C) Insert into employee values (1005,Rach,0);
D) None of the mentioned
98. Which of the following deletes all tuples in the instructor relation for those instructors associated with a department located in the Watson building which is in department relation.
A) DELETE FROM department
WHERE building='Watson';
B) DELETE FROM instructor
WHERE dept_name IN (SELECT dept name
FROM department
WHERE building = 'Watson');
C) DELETE FROM instructor
WHERE dept_name IN 'Watson';
D) None of the mentioned
99. Given the basic ER and relational models, which of the following is INCORRECT?
A) In a row of a relational table, an attribute can have more than one value
B) In a row of a relational table, an attribute can have exactly one value or a NULL value
C) An attribute of an entity can be composite
D) An attribute of an entity can have more than one value
100. A primary key is combined with a foreign key creates
A) Many to many relationship between the tables that connect them
B) Network model between the tables that connect them
C) Parent-Child relation ship between the tables that connect them
D) None of the mentioned
101. The EXISTS keyword will be true if:
A) All rows in the subquery fail the condition only
B) Both of these two conditions are met
C) Neither of these two conditions is met
D) Any row in the subquery meets the condition only
102. A ____ indicates an absent value that may exist but be unknown or that may not exist at all.
A) Null value
B) Empty tuple
C) Old value
D) New value
103. Which of the following can be a multivalued attribute?
A) Date_of_birth
B) Phone_number
C) Name
D) All of the mentioned
104. (SELECT course id
FROM SECTION
WHERE semester = 'Fall' AND YEAR= 2009)
EXCEPT
(SELECT course id FROM SECTION
WHERE semester = 'Spring' AND YEAR= 2010);
This query displays
A) Only tuples from the first part which has the tuples from second part
B) Tuples from both the parts
C) Tuples from first part which do not have second part
D) Only tuples from second part

105. A _____ integrity constraint requires that the values appearing in specified attributes of any tuple in the referencing relation also appear in specified attributes of at least one tuple in the referenced relation.

- A) Primary
- B) Specific
- C) Referential**
- D) Referencing

106. Which of the following is used to find all courses taught in both the Fall 2009 semester and in the Spring 2010 semester .

- A) (SELECT course id
FROM SECTION
WHERE semester = 'Spring' AND YEAR= 2010)
- B) SELECT COUNT (DISTINCT ID)
FROM takes
WHERE (course id, sec id, semester, YEAR) IN
(SELECT course id, sec id, semester, YEAR
FROM teaches
WHERE teaches.ID= 10101);**
- C) SELECT course id
FROM SECTION AS S
WHERE semester = 'Fall' AND YEAR= 2009 AND
EXISTS (SELECT *
FROM SECTION AS T
WHERE semester = 'Spring' AND YEAR= 2010
AND
S.course id= T.course id);
- D) SELECT name
FROM instructor
WHERE salary > SOME (SELECT salary
FROM instructor
WHERE dept name = 'Biology');

107. A _____ constraint requires that an entity belong to no more than one lower-level entity set.

- A) Special
- B) Relational
- C) Uniqueness
- D) Disjointness**

108. What type of join is needed when you wish to include rows that do not have matching values?

- A) Outer join**
- B) Equi-join
- C) Natural join
- D) All of the mentioned

109. Which join refers to join records from the right table that have no matching key in the left table are include in the result set:

- A) Right outer join**
- B) Half outer join
- C) Left outer join
- D) Full outer join

110. All aggregate functions except _____ ignore null values in their input collection.

- A) Count(*)**
- B) Sum
- C) Count(attribute)
- D) Avg

111. A table has fields F1, F2, F3, F4, and F5, with the following functional dependencies:

- F1->F3
- F2->F4
- (F1,F2)->F5
- in terms of normalization, this table is in
- A) 3NF
- B) 1NF**
- C) 2NF
- D) None of the mentioned

112. An entity set that does not have sufficient attributes to form a primary key is termed a _____

- A) Variant set
- B) Weak entity set**
- C) Variable set
- D) Strong entity set

113. If every non-key attribute is functionally dependent primary key, then the relation will be in

- A) Second normal form**
- B) Third form
- C) Fourth normal form
- D) First normal form

114. If an entity set is a lower-level entity set in more than one ISA relationship, then the entity set has

- A) Single inheritance
- B) Hierarchy
- C) Multiple inheritance**
- D) Multilevel inheritance

115. Which of the following statements contains an error?

- A) Select empid where empid = 1009 and lastname = 'GELLER';**
- B) Select * from emp where empid = 10003;
- C) Select empid from emp where empid = 10006;
- D) Select empid from emp;

116. Delete from r where P;

The above command

A) Deletes the relation

B) Clears all entries from the relation

C) Deletes a particular tuple from the relation

D) All of the mentioned

117. SELECT emp_name

FROM department

WHERE dept_name LIKE '___ Computer Science';

Which one of the following has to be added into the blank to select the dept_name which has Computer Science as its ending string?

A) ||

B) \$

C) _

D) %

118. Database _____ which is the logical design of the database, and the database _____ which is a snapshot of the data in the database at a given instant in time.

A) Relation, Domain

B) Instance, Schema

C) Schema, Instance

D) Relation, Schema

119. The term attribute refers to a _____ of a table.

A) Key

B) Tuple

C) Record

D) Column

120. DELETE FROM r; //r - relation

This command performs which of the following action?

A) Delete rows

B) Delete fields

C) Remove relation

D) Clear relation entries

With My Best Wishes